

CLAIMS:

What is claimed is:

1. An electrical connector for mounting on a printed circuit board which includes a mounting surface, an opposite mating surface, a locating hole and a terminal-receiving aperture, comprising:

5 a dielectric housing having a front board-mounting face for mounting against the mounting surface of the printed circuit board, at least one terminal-receiving passage having a front opening in the front board-mounting face and alignable with the terminal-receiving aperture in the printed circuit board, and an alignment boss projecting from the front board-mounting face and insertable into the locating hole in the printed circuit board, the alignment boss having a guide hole for receiving a guide post from a complementary mating connector
10 at the mating surface of the printed circuit board; and

a conductive terminal mounted on the housing and including a tail portion outside the housing for connection to an appropriate circuit trace on the printed circuit board, and a contact portion inside the terminal-receiving passage of the housing for engaging an appropriate terminal of the complementary mating connector.

2. The electrical connector of claim 1 wherein said alignment boss projects through the locating hole in the printed circuit board from the mounting surface of the board to a location generally flush with the mating surface of the board.

3. The electrical connector of claim 1 wherein the guide hole of the alignment boss has a flared mouth to facilitate inserting the guide post of the complementary mating connector into the guide hole.

4. The electrical connector of claim 1, including at least one flexible latch arm on the housing engageable in a latch opening in the printed circuit board.

5. The electrical connector of claim 1, wherein said dielectric housing is elongated and including a pair of said alignment bosses near opposite ends of the elongated housing, the bosses being insertable into a pair of spaced locating holes in the printed circuit board.

6. The electrical connector of claim 5, including a row of said terminal-receiving passages in the housing, the row extending in a direction between the pair of alignment bosses, a plurality of said conductive terminals mounted on the housing, the terminals having contact portions in the plurality of terminal-receiving passages, and the row of passages being aligned with an elongated slot in the printed circuit board.

7. An electrical connector assembly, comprising:
a printed circuit board including a mounting surface, an opposite mating surface, a locating hole and a terminal-receiving aperture;

a connector housing having a front board-mounting face for mounting against the mounting surface of the printed circuit board, at least one terminal-receiving passage having a front opening in the front board-mounting face and alignable with the terminal-receiving aperture in the printed circuit board, and an alignment boss projecting from the front board-mounting face and insertable into the locating hole in the printed circuit board, the alignment boss having a guide hole for receiving a guide post from a complementary mating connector at the mating surface of the printed circuit board; and

a conductive terminal mounted on the housing and including a tail portion outside the housing for connection to an appropriate circuit trace on the printed circuit board, and a contact portion inside the terminal-receiving passage of the housing for engaging an appropriate terminal of the complementary mating connector.

8. The electrical connector assembly of claim 7 wherein said alignment boss projects through the locating hole in the printed circuit board from the mounting surface of the board to a location generally flush with the mating surface of the board.

9. The electrical connector assembly of claim 7 wherein the guide hole of the alignment boss has a flared mouth to facilitate inserting the guide post of the complementary mating connector into the guide hole.

10. The electrical connector assembly of claim 7, including at least one flexible latch arm on the housing engageable in a latch opening in the printed circuit board.

11. The electrical connector assembly of claim 7, wherein said connector housing is elongated and including a pair of said alignment bosses near opposite ends of the elongated housing, the bosses being insertable into a pair of spaced locating holes in the printed circuit board.

12. The electrical connector assembly of claim 11, including a row of said terminal-receiving passages in the housing, the row extending in a direction between the pair of alignment bosses, a plurality of said conductive terminals mounted on the housing, the terminals having contact portions in the plurality of terminal-receiving passages, and the row of passages being aligned with an elongated slot in the printed circuit board.

13. An electrical connector assembly for mounting on a printed circuit board which includes a mounting surface, an opposite mating surface, a locating hole and a terminal-receiving aperture, comprising:

a header connector including a dielectric housing having a front board-mounting face for mounting against the mounting surface of the printed circuit board, at least one terminal-receiving passage having a front opening in the front board-mounting face and alignable with the terminal-receiving aperture in the printed circuit board, and an alignment boss projecting from the front board-mounting face and insertable into the locating hole in the printed circuit board, the alignment boss having a guide hole, and a conductive terminal mounted on the housing and including a tail portion outside the housing for connection to an appropriate circuit trace on the printed circuit board, and a contact portion inside the terminal-receiving passage of the housing for engaging an appropriate terminal of the complementary mating connector; and

a mating connector at the mating surface of the printed circuit board, the mating connector including a terminal for engaging the conductive terminal of the header connector and a guide post for insertion into the guide hole in the alignment boss from the mating surface of the printed circuit board.

14. The electrical connector assembly of claim 13 wherein said alignment boss projects through the locating hole in the printed circuit board from the mounting surface of the board to a location generally flush with the mating surface of the board.

15. The electrical connector assembly of claim 13 wherein the guide hole of the alignment boss has a flared mouth to facilitate inserting the guide post of the mating connector into the guide hole.

16. The electrical connector assembly of claim 13, including at least one flexible latch arm on the housing engageable in a latch opening in the printed circuit board.

17. The electrical connector assembly of claim 13, wherein said dielectric housing is elongated and including a pair of said alignment bosses near opposite ends of the elongated housing, the bosses being insertable into a pair of spaced locating holes in the printed circuit board.

18. The electrical connector assembly of claim 17, including a row of said terminal-receiving passages in the housing, the row extending in a direction between the pair of alignment bosses, a plurality of said conductive terminals mounted on the housing, the terminals having contact portions in the plurality of terminal-receiving passages, and the row of passages being aligned with an elongated slot in the printed circuit board.

19. The electrical connector of claim 18 wherein said mating connector includes a row of terminals insertable through the elongated slot in the printed circuit board and into the row of terminal-receiving passages in the housing of the header connector for engagement with the contact portions of the plurality of conductive terminals in the terminal-receiving passages of the housing of the header connector.